

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1 - 2. (Cancelled)

3. (Previously Presented) A substrate for a liquid crystal device comprising:
a base; and
a light reflecting film formed above said base,
wherein said light reflecting film has a pattern that provides light directivity and light scattering,
said pattern is formed by aligning at least of a plurality of convexities and a plurality of concavities,
said convexities or concavities are pyramid shape in plane section, and
a spatial shape of said convexities or said concavities along one of two orthogonal axes that pass through said convexities or concavities is different from a spatial shape that extends along the other axis.

4. (Cancelled)

5. (Previously Presented) The substrate for a liquid crystal device according to Claim 21, wherein one side of a surface area of said spatial shape is asymmetric with the other side.

6. (Previously Presented) The substrate for a liquid crystal device according to Claim 21, wherein one angle of said spatial shape with respect to said base is asymmetric with another angle of said spatial shape with respect to said base.

7.-12. (Cancelled)

13. (Previously Presented) A method of manufacturing a substrate for a liquid crystal device comprising the steps of:

forming an insulating layer on a surface of the base;

employing a mask to form at least one of a plurality of convexities and a plurality of concavities, said convexities or concavities are pyramid shape in plane section, on the surface of said insulating layer; and

forming a light reflecting film on said insulating layer;

wherein a shape of a mask pattern of said mask for said convexities or said concavities along one axis of two orthogonal axes that pass through said convexities or concavities is different from the shape that extends along the other axis.

14. – 16. (Cancelled)

17. (Previously Presented) A liquid crystal display device comprising:

a substrate for a liquid crystal device as set forth in claim 3; and

a liquid crystal sandwiched between the pair of substrates.

18. (Previously Presented) A method for manufacturing a liquid crystal display device comprising the steps of:

manufacturing a substrate for a liquid crystal device as set forth in claim 13.

19. (Previously Presented) An electronic apparatus comprising:

a liquid crystal display device; and

a case accommodating said liquid crystal device,

said liquid crystal device comprising:

a liquid crystal display device as set forth in claim 17.

20. (Previously Presented) A substrate for a liquid crystal device, comprising:

a base; and

a light reflecting film formed above said base,

wherein said light reflecting film has a pattern that provides light directivity and light scattering,

said pattern is formed by aligning at least one of a plurality of convexities and a plurality of concavities,

said convexities or concavities are teardrop shape in plane section; and

a spatial shape of said convexities or said concavities along one of two orthogonal axes that pass through said convexities or concavities is different from a spatial shape that extends along the other axis.

21. (Previously Presented) A substrate for a liquid crystal device, comprising:

a base; and

a light reflecting film formed above said base;

wherein said light reflecting film has a pattern that provides light directivity and light scattering,

said pattern is formed by aligning at least one of a plurality of convexities and a plurality of concavities,

said convexities or concavities are pyramid shape in plane section, and

one side of a spatial shape of said convexities or said concavities bisected by at least one of the two orthogonal axes that pass through said convexities or concavities is asymmetric with the other side thereof.

22. (Previously Presented) A substrate for a liquid crystal device, comprising:

a base; and

a light reflecting film formed above said base;

wherein said light reflecting film has a pattern that provides light directivity and light scattering,

said pattern is formed by aligning at least one of a plurality of convexities and a plurality of concavities,

said convexities or concavities are teardrop shape in plane section, and

one side of a spatial shape of said convexities or said concavities are bisected by at least one of the two orthogonal axes that pass through said convexities or concavities is asymmetric with the other side thereof.

23. (Previously Presented) A substrate for a liquid crystal device that is one of a pair of substrates sandwiching a liquid crystal and that is positioned opposite from a

viewing-side substrate, comprising a base and a light reflecting film formed above said base,

wherein at least one of a plurality of convexities and a plurality of concavities are formed and arranged in a reflecting pattern on said surface of said light reflecting film,

said convexities or concavities are pyramid shape in plane section, and

with respect to an amount of light reflected on said reflecting pattern, a profile of the amount of light along one of two orthogonal axes that pass through said convexities or said valleys is different from the profile of the amount of light along the other of the two orthogonal axes.

24. (Previously Presented) A substrate for a liquid crystal device that is one of a pair of substrates sandwiching a liquid crystal and that is positioned opposite from a viewing-side substrate, comprising a base and a light reflecting film formed above said base,

wherein at least one of a plurality of convexities and a plurality of concavities are formed and arranged in a reflecting pattern on said surface of said light reflecting film,

said convexities or concavities are teardrop shape in plane section, and

with respect to an amount of light reflected on said reflection pattern, a profile of the amount of light along one of two orthogonal axes that pass through said convexities or said concavities is different from the profile of the amount of light along the other of the two orthogonal axes.

25. (Previously Presented) A method of manufacturing a substrate for a liquid crystal device comprising the steps of:

forming an insulating layer on a surface of the base;

employing a mask to form at least one of a plurality of convexities and a plurality of concavities, said convexities or concavities are teardrop shape in plane section on the surface of said insulating layer; and

forming a light reflecting film on the insulating layer;

wherein a shape of a mask pattern of said mask for said convexities or said concavities along one axis of two orthogonal axes that pass through said convexities or concavities is different from the shape that extends along the other axis.

26. (Previously Presented) A method of manufacturing a substrate for a liquid crystal device comprising the steps of:

forming an insulating layer on the surface of a base; employing a mask to form at least one of a plurality of convexities and a plurality of concavities, said convexities or concavities are pyramid shape in plane section on a surface of said insulating layer; and

forming a light reflecting film on the insulating layer;

wherein a shape of one side of a mask pattern of said mask for said plurality of convexities or said plurality of concavities that is bisected by at least one of two orthogonal axes that pass through said convexities or concavities is asymmetric with the other side thereof.

27. (Previously Presented) A method of manufacturing a substrate for a liquid crystal device comprising the steps of:

forming an insulating layer on the surface of a base;

employing a mask to form at least one of a plurality of convexities and a plurality of concavities, said convexities or concavities are teardrop shape in plane section on a surface of said insulating layer; and

forming a light reflecting film on said insulating layer;

wherein a shape of one side of a mask pattern of said mask for said plurality of convexities or said plurality of concavities that is bisected by at least one of two orthogonal axes that pass through said convexities or concavities is asymmetric with the other side thereof.

28. – 31. (Cancelled)

32. (Previously Presented) The substrate for a liquid crystal device according to Claim 23, wherein said profile of the amount of light along said one axis is peak shaped, and said profile of the amount of light along said other axis is a straight line.

33. (Previously Presented) The substrate for a liquid crystal device according to Claim 24, wherein said profile of the amount of light along said one axis is peak shaped, and said profile of the amount of light along said other axis is a straight line.

34. (Previously Presented) A liquid crystal display device comprising:
a substrate for a liquid crystal device as set forth in claim 21; and
a liquid crystal sandwiched between the pair of substrates.

35. (Previously Presented) A liquid crystal display device comprising:

a substrate for a liquid crystal device as set forth in claim 23; and
a liquid crystal sandwiched between the pair of substrates.

36. (Previously Presented) A liquid crystal display device comprising:
a substrate for a liquid crystal device as set forth in claim 20; and
a liquid crystal sandwiched between the pair of substrates.

37. (Previously Presented) A method for manufacturing a liquid crystal display device comprising the steps of:
manufacturing a substrate for a liquid crystal device as set forth in claim 26.

38. (Previously Presented) A method for manufacturing a liquid crystal display device comprising the steps of:
manufacturing a substrate for a liquid crystal device as set forth in claim 25.

39. (Previously Presented) The substrate for a liquid crystal device according to Claim 22, wherein one side of a surface area of said spatial shape is asymmetric with the other side.

40. (Previously Presented) The substrate for a liquid crystal device according to claim 22, wherein one angle of said spatial shape with respect to said base is asymmetric with another angle of said spatial shape with respect to said base.

41. (Previously Presented) A liquid crystal display device comprising:

a substrate for a liquid crystal device as set forth in claim 22; and
a liquid crystal sandwiched between the pair of substrates.

42. (Previously Presented) A liquid crystal display device comprising:
a substrate for a liquid crystal device as set forth in claim 24; and
a liquid crystal sandwiched between the pair of substrates.

43. (Previously Presented) A method for manufacturing a liquid crystal display device comprising the steps of:
manufacturing a substrate for a liquid crystal device as set forth in claim 27.

44. (Previously Presented) An electronic apparatus comprising:
a liquid crystal display device;
a case accommodating said liquid crystal device,
said liquid crystal device comprising:
the liquid crystal display device as set forth in claim 36.

45. (New) A substrate for a liquid crystal device that is one of a pair of substrates sandwiching a liquid crystal and that is positioned opposite from a viewing-side substrate, comprising a base and a light reflecting film formed above said base,
wherein said light reflecting film has a pattern that is formed by aligning at least one of a plurality of convexities and a plurality of concavities;
said convexities or concavities are pyramid shape in plane section, and

with respect to an amount of light reflected on said reflecting pattern, a profile of the amount of light along one of two orthogonal axes that pass through said convexities or said valleys is different from the profile of the amount of light along the other of the two orthogonal axes.

46. (New) A substrate for a liquid crystal device that is one of a pair of substrates sandwiching a liquid crystal and that is positioned opposite from a viewing-side substrate, comprising a base and a light reflecting film formed above said base,

wherein said light reflecting film has a pattern that is formed by aligning at least one of a plurality of convexities and a plurality of concavities,

said convexities or concavities are teardrop shape in plane section, and

with respect to an amount of light reflected on said reflection pattern, a profile of the amount of light along one of two orthogonal axes that pass through said convexities or said concavities is different from the profile of the amount of light along the other of the two orthogonal axes.

47. (New) The substrate for a liquid crystal device according to Claim 45, wherein said profile of the amount of light along said one axis is peak shaped, and said profile of the amount of light along said other axis is a straight line.

48. (New) The substrate for a liquid crystal device according to Claim 46, wherein said profile of the amount of light along said one axis is peak shaped, and said profile of the amount of light along said other axis is a straight line.